

ABSTRACT

Method for estimating a carrier leak, an estimator and modulation system provided with automatic control of a carrier using said system

The invention relates to a method of estimating a carrier leak making it possible to solve the accuracy degradation problem associated with a poor reception by the central carrier.

A subject of said invention is a method of estimating a carrier leak consisting in:

- varying a complex gain Z applied to the received signal s between at least two predetermined values $Z1$ and $Z2$;
- measuring the position ($PD1$, $PD2$) of the central carrier of the signal s demodulated for each applied gain ($Z1$, $Z2$);
- calculating at least a part of the carrier leak based on the measured positions ($PD1$, $PD2$) and the applied gains ($Z1$, $Z2$), the calculated carrier leak part (offset-mod) corresponding to the leak due to the modulator.

[Figure 3]